Elahe Ranjbari

Interests

- ◉ Data Science and Big Data
- ◉ Natural Language Processing
- ◉ Computational Genomics

About

I am a Computer Scientist and Engineer with my main concentration on developing Large-Scale Machine Learning solutions for domain applications.

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Education

- ◉ B.Sc. of Computer Engineering at Amirkabir University of Technology **(Honors)** **(2016-2020)**
  - *GPA: 17.57/20 (Equivalent to* **3.76/4** *according to the* <u>*McGill international grade equivalency)*</u>
  - ***Among Top 10% Students*** *of Computer Engineering 2016 Entrance (Among ~150 Students)*
  - *Artificial Intelligence Concentration*

- ◉ Diploma of Mathematics at Farzanegan *(Exceptional Talents)* High School **(Honors)** **(2012-2016)**
  - *GPA: 19.87/20 (Equivalent to* **4/4***)*

Notable Achievements

- ◉ Member of **Iranian National Elites Foundation (2021)**
- ◉ **First Place** in a National **Artificial Intelligence (Rahneshan)** Contest **(2021)**
- ◉ Ranked Among **Top 10% Students of Computer Engineering Faculty** (~150 Students) **(2016-2020)**
- ◉ **Ranked 302** in 2016 National University Entrance Exam (Among 162979 Participants) **(2016)**
- ◉ **Ranked the Best Student** During All Years of High School (~50 students) **(2012-2016)**
- ◉ **First Place** in Ragional Algebra Olympiad **(2014-2016)**

Related Outstanding Courses

Course	Grade		Course	Grade	
Bioinformatics	*20/20*	*(A+)*	*Data Mining*	*20/20*	*(A+)*
Applied Linear Algebra	*18.29/20*	*(A+)*	*B.Sc. Project (NLP)*	*19.75/20*	*(A+)*
Statistics and Probabilities	*18.25/20*	*(A+)*	*Information Retrieval*	*16.9/20*	*(A)*
Linear Optimization	*17.4/20*	*(A)*	*Internship (Data Mining)*	*18.5/20*	*(A)*
Discrete Mathematics	*17.5/20*	*(A)*	*Principles of Computing*	*17.25/20*	*(A)*
Data Structures and Algorithms	*17.9/20*	*(A)*	*Advanced Computer Programming*	*18/20*	*(A+)*
Algorithm Design	*19.75/20*	*(A+)*	*Operating Systems + Lab*	*17.1/20*	*(A)*
Signals and Systems	*16/26*	*(A)*	*Database Design + Lab*	*19.2/20*	*(A+)*
Multicore (GPU) Programming	*PASS*	*(PASS)*	*Software Engineering I*	*18.5/20*	*(A+)*
Logic Circuits + Lab	*16.8/20*	*(A)*	*Computational Intelligence*	*16/20*	*(A)*
Computer Architecture + Lab	*18.87/20*	*(A+)*	*Artificial Intelligence*	*15.12/20*	*(B+)*

Publications

- ◉ **Classification of Persian Tweets using neural networks (Winter 2019 - Fall 2020)**
  - *B.Sc. Project - Under the supervision of Dr. Mohammad Rahmati*
  - *Codes are available at my Github account*

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Skills and Knowledge

Programming
Python Programming [confident]
C/C++ Programming [familiar]
Java Programming [familiar]
Data Structures [familiar]

Natural Language Processing
Text Mining [confident]
Sentiment Analysis [familiar]
Text Classification [confident]
Speech Recognition [familiar]

Artificial Intelligence
Machine Learning Basics [confident]
RNN/Transformers [familiar]
Tensorflow2/Keras [confident]
Numpy, Pandas, Matplotlib [confident]

BioInformatics
DNA Sequencing Techniques [familiar]
Genomic Data Science [familiar]

Mathematics
Linear Algebra [confident]
Probabilities and Statistics [confident]
Calculus Basics [familiar]
Optimization Basics [familiar]

Software Systems
Software Eng. Principles [familiar]
Linux and Bash Scripting [familiar]
Database (PostgreSQL) [confident]
Elastic Search [confident]

Work Experience

- Data Scientist at **Digikala** Company **(Sep 2021 - Current)**
  - *The Largest e-commerce company in the **Middle East** with more than **40 Million** active users*
  - *Working on Large-Scale NLP and Data Mining solutions*

- Data Scientist at PDN (Data Mining) Company **(Jun 2019 - Jan 2020)**
  - *Worked on NLP for text-mining and fraud detection*
  - *Worked on Time-Series prediction for stock markets*

Notable Teaching Experience

- Teaching Assistant of Linear Algebra Course **(Amirkabir University) (Fall 2018)**
  - *Preparing homework and presenting problem-solving classes*

- High School Academic Advisor **(Farzanegan High School) (October 2018 – April 2019)**
  - *Curriculum planning and motivational counseling*

- High School Physics Instructor **(Farzanegan High School) (October 2016 - April 2017)**
  - *Teaching Physics to Fourth-grade high school students*

Notable Projects

- Persian Words Clustering for Recommender System Optimization **(Python, SQL)** **(2021)**
- Web Crawler for Word Clustering **(Python, Scrapy, Beautiful Soup)** **(2021)**
- Classification of Persian Tweets using neural networks **(Python, Tensorflow/Keras)** **(2020)**
- Sentiment Analysis of Persian Tweets **(PyLucene, Python)** **(2019)**
- Implementation of a Persian search engine **(Python)** **(2019)**
- Subject segmentation of a formal newspaper **(Python, Elastic Search)** **(2019)**
- Online chain store database design **(SQL)** **(2018)**
- Railway database design **(PostgreSQL)** **(2018)**
- UDP/TCP client-server chat application **(Python)** **(2018)**